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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,524	07/29/2003	Aldrich N.K. Lau	4764	6868
	7590 03/23/200 , PATENT DEPT.	EXAMINER		
APPLIED BIOS	SYSTEMS		OLSEN, KAJ K	
850 LINCOLN CENTRE DRIVE FOSTER CITY, CA 94404			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			03/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
		10/629,524	LAU, ALDRICH N.K.				
	Office Action Summary	Examiner	Art Unit				
		KAJ K. OLSEN	1795				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 19 De	ecember 2008.					
		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Dispositi	ion of Claims						
4)🛛	4)⊠ Claim(s) <u>24-26,28,29 and 31-54</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)🛛	6)⊠ Claim(s) <u>24-26,28,29 and 31-54</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a) acce	epted or b)□ objected to by the B	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Infori	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 54 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. New claim 54 depends from claim 1, which has been canceled. For the purpose of examination, the examiner will presume that claim 54 depends from claim 31, but clarification and correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 4. basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- 5. Claims 24-26, 28, 29, and 31-54 are rejected under 35 U.S.C. 102(a) as being anticipated by WO 2002/00746 (hereafter "WO '746") which corresponds to Viovy et al (US 2004/0101970). All paragraph numbers herein refer to Viovy.
- 6. With respect to claims 24-26, 28, 29, and 31-53, these claims remain rejected over the teaching of WO '746 for the reasons set forth in the previous office actions. Applicant has amended claim 24 to state in limitations (1)(a) and (1)(b) that the backbone polymer and pendant polymer are constructed of monomers having the formulas (I) and (II) respectively. The examiner believes these amendments have not changed the actual scope of the claim, but are present to clarify that the structures shown in formulas (I) and (II) are the root monomers and not the polymers. This does not change the nature of the rejection over WO '746 as WO '746 teaches the use of monomers reading on these formulas. Applicant has also amended claim 24 to specify that $poly(M_2)$ is grafted to $poly(M_1)$ through a carbon-carbon bond. This amendment is apparently in reference to the previous arguments and addendums of 7/17/2008 where applicant sets out to establish that WO '746 actually relies on a thiol linkage for the pendant-backbone grafting. However, in addition to the thiol linkage shown in the addendum B of P_{III A} and P_{III B}, the graft of WO '746 also contains carbon-carbon bonds. In particular, both P_{III A} and P_{III B} show a CH₂CH₂ unit. This would read on the now defined carbon-carbon bond of the claim. The claims are constructed with open language (i.e. comprising) and there is nothing the claims to suggest the graft cannot include a thiol linkage as well. Hence, the claims remain anticipated over the teaching of WO '746.
- 7. With respect to new claim 54, the poly(M_2) of WO '746 is grafted to R4 of poly(M_1). See the N-CH₂CH₂ linkage in $P_{III A}$ and $P_{III B}$.

Response to Arguments

8. The examiner addressed the arguments from the applicant about the new limitations of claim 24 above and will not reiterate them here.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAJ K. OLSEN whose telephone number is (571)272-1344. The examiner can normally be reached on M-F 5:30-2:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kaj K Olsen/ Primary Examiner, Art Unit 1795 March 23, 2009